

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P249840

Luminaire Tested: **LD8B80D010 ER8B80940 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80940 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6714.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

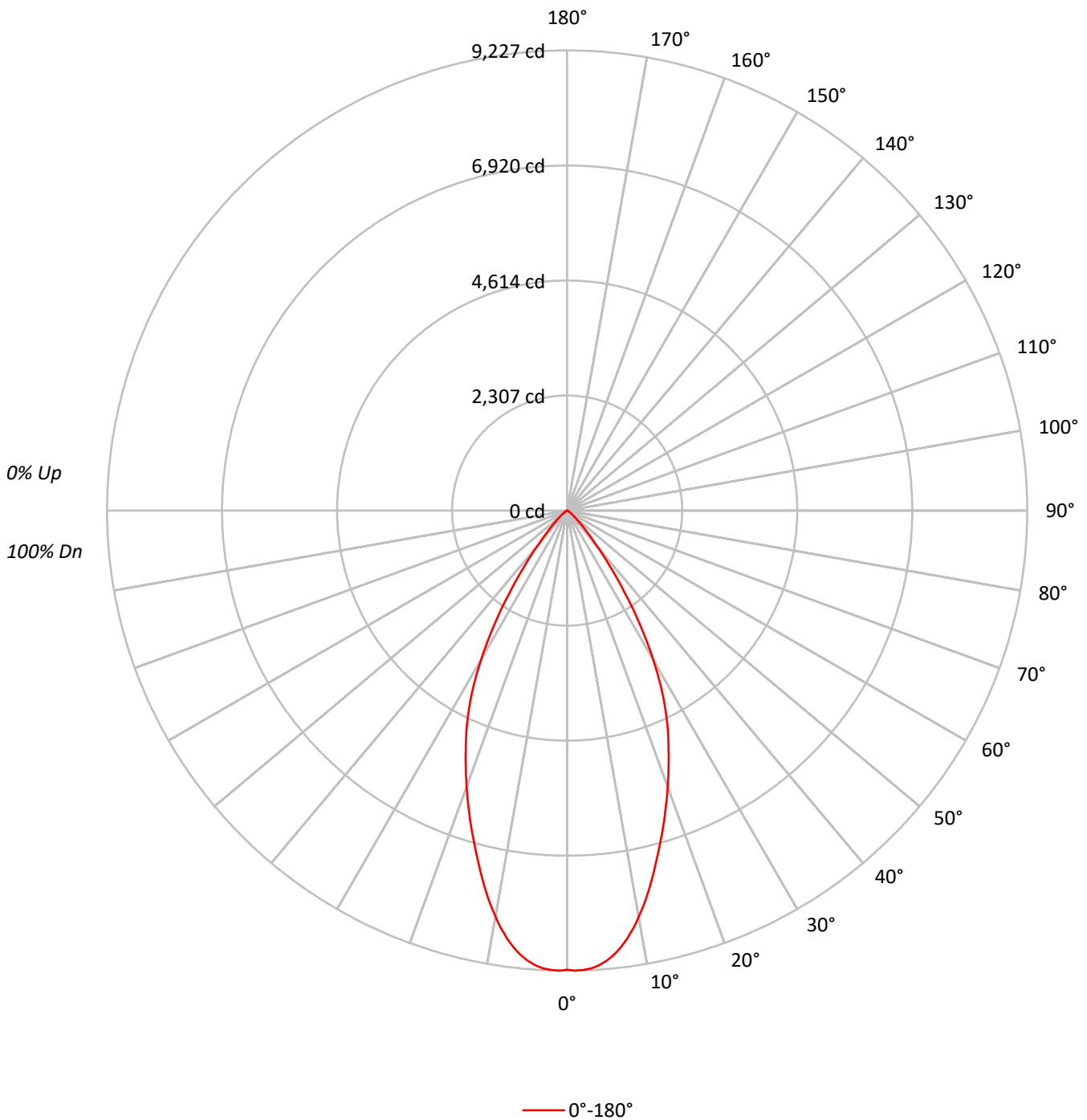
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	283962
5°	280475
10°	259032
15°	225869
20°	193479
25°	161955
30°	123213
35°	76380
40°	37682
45°	17932
50°	8721
55°	4274
60°	2664
65°	1824
70°	1028
75°	810
80°	799
85°	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.7	12.5
10°-20°	1971.4	29.4
20°-30°	2154.7	32.1
30°-40°	1282.2	19.1
40°-50°	351.7	5.2
50°-60°	79.7	1.2
60°-70°	24.6	0.4
70°-80°	7.5	0.1
80°-90°	2.5	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4965.8	74.0
0°-40°	6248.1	93.1
0°-60°	6679.5	99.5
0°-90°	6714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9209	
5°	9061	840
15°	7075	1971
25°	4760	2155
35°	2029	1282
45°	411	352
55°	80	80
65°	25	25
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9208.7
1°	9226.9
2°	9215.5
3°	9192.8
4°	9140.5
5°	9061.0
6°	8958.8
7°	8822.4
8°	8663.4
9°	8479.4
10°	8272.6
11°	8052.2
12°	7815.9
13°	7572.8
14°	7320.6
15°	7075.2
16°	6834.4
17°	6598.1
18°	6361.8
19°	6125.5
20°	5896.0
22.5°	5318.9
25°	4760.0
27.5°	4144.3
30°	3460.4
32.5°	2726.5
35°	2029.0
37.5°	1411.0
40°	936.1
42.5°	613.5
45°	411.2
47.5°	272.6
50°	181.8
52.5°	111.3
55°	79.5
57.5°	56.8
60°	43.2
62.5°	31.8
65°	25.0
67.5°	15.9
70°	11.4
72.5°	9.1
75°	6.8
77.5°	4.5
80°	4.5



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.3
85°	2.3
87.5°	2.3
90°	0.0

(END OF REPORT)